

FIG. 1



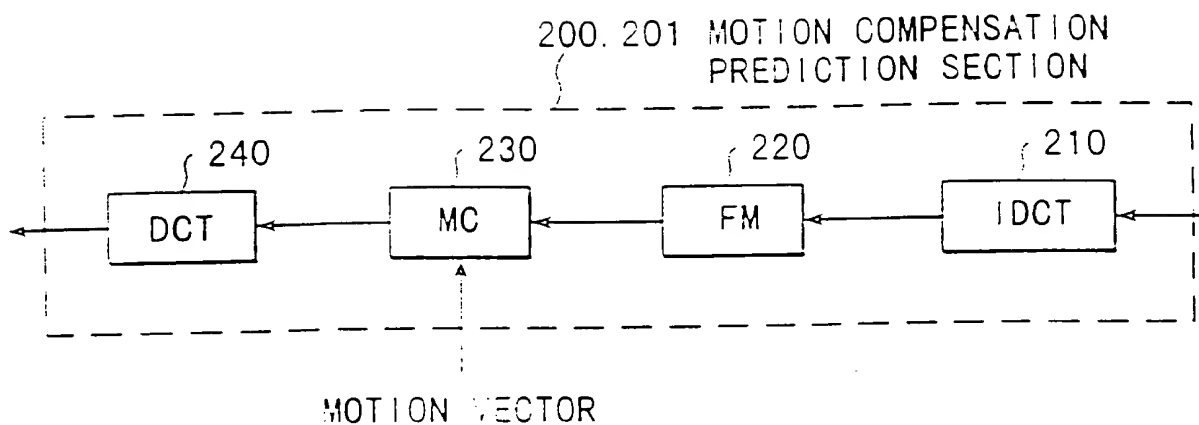


FIG. 3A

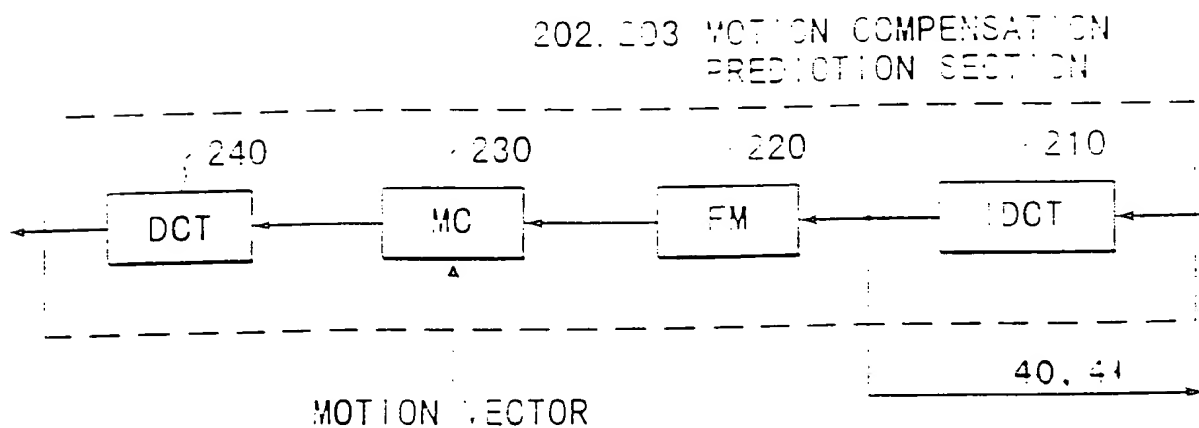


FIG. 3B

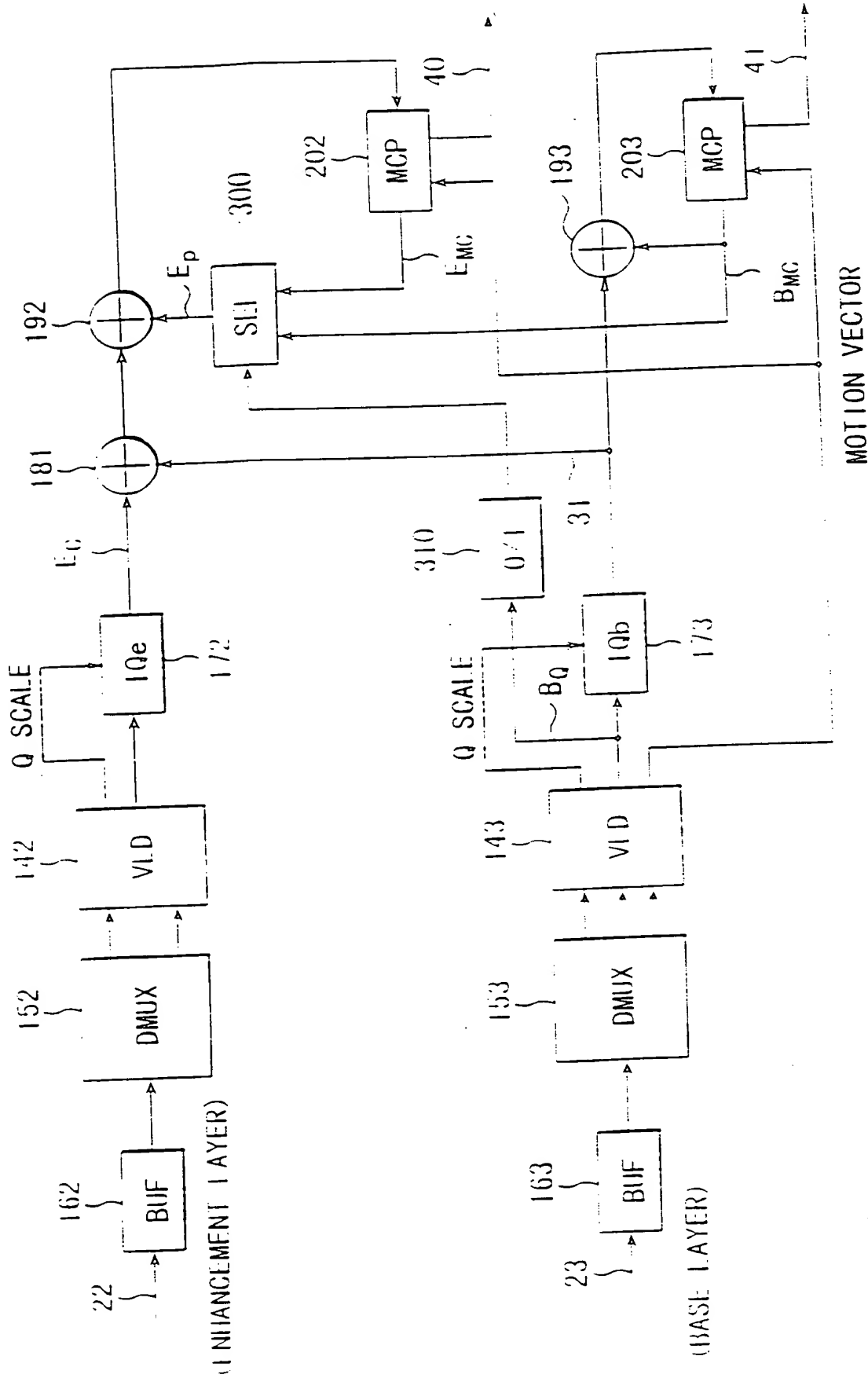
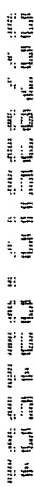


FIG. 4



F. G. 5

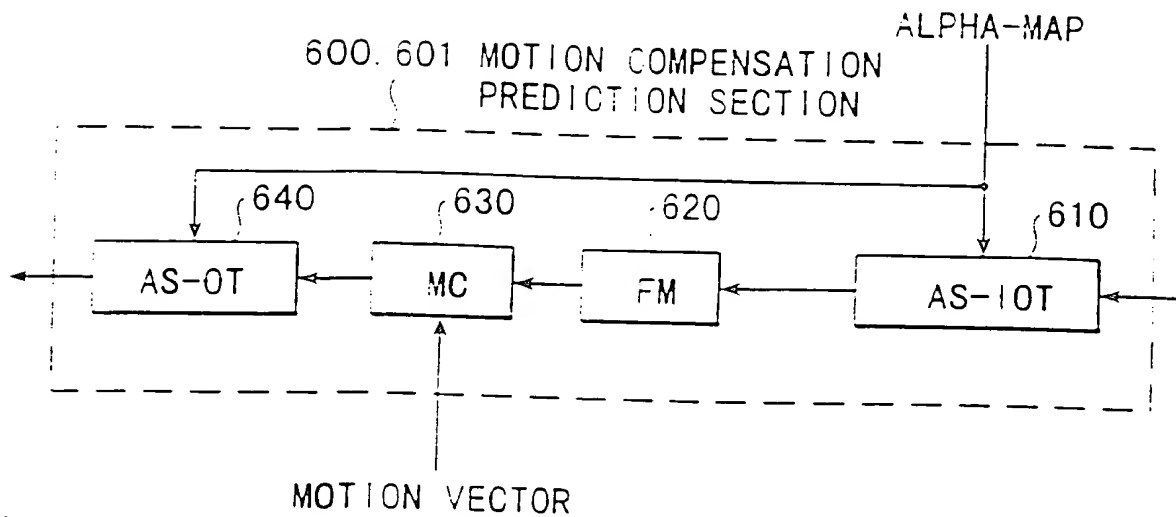


FIG. 6A

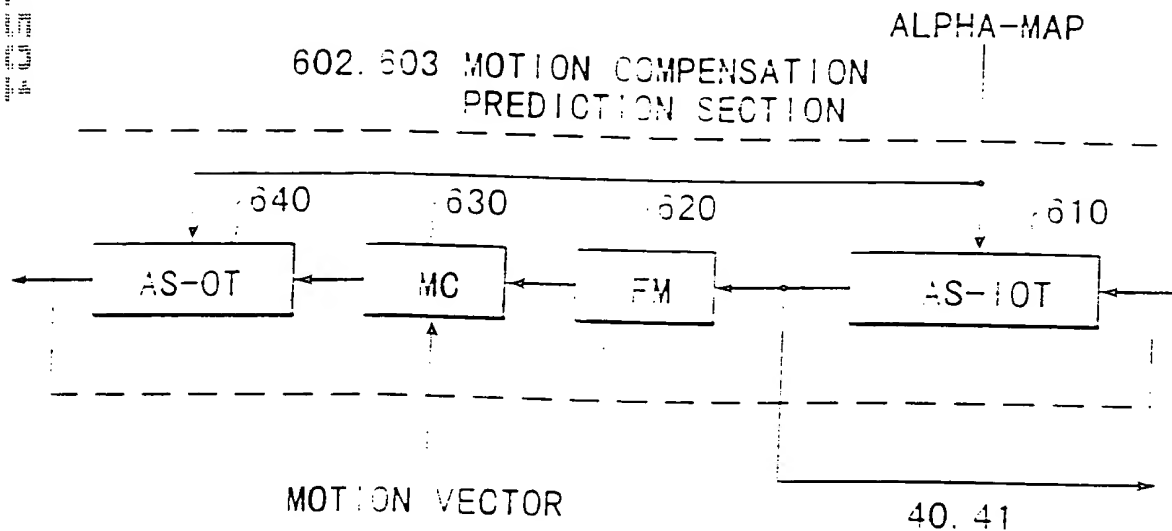


FIG. 6B



FIG. 7

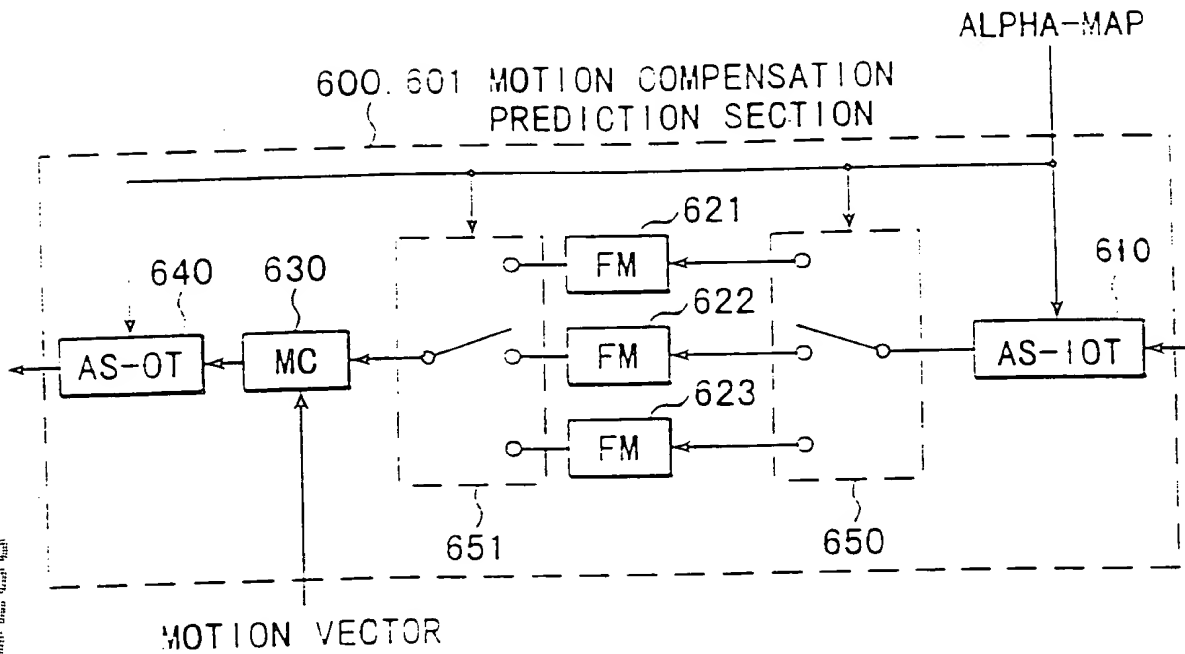


FIG. 8A

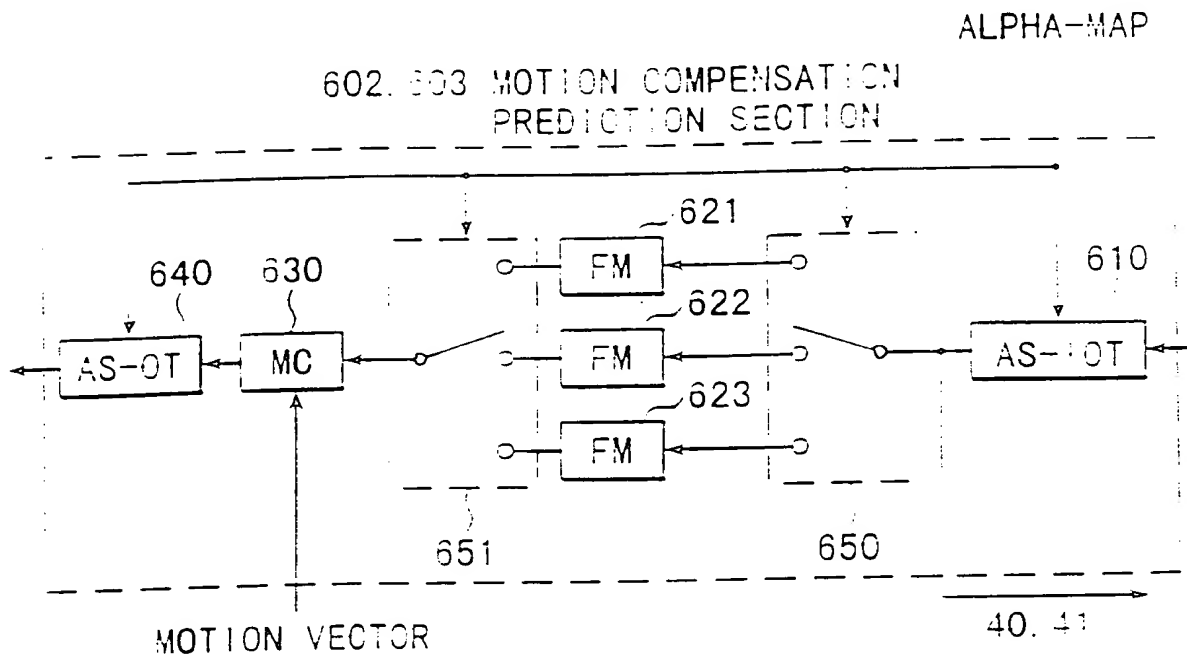


FIG. 8B

QUANTIZATION MATRIX OF INTRABLOCK

| v \ h | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------|----|----|----|----|----|----|----|----|
| 1 | 8 | 16 | 19 | 22 | 26 | 27 | 29 | 34 |
| 2 | 16 | 16 | 22 | 24 | 27 | 29 | 34 | 37 |
| 3 | 19 | 22 | 26 | 27 | 29 | 34 | 34 | 38 |
| 4 | 22 | 22 | 26 | 27 | 29 | 34 | 37 | 40 |
| 5 | 22 | 26 | 27 | 29 | 32 | 35 | 40 | 48 |
| 6 | 26 | 27 | 29 | 32 | 35 | 40 | 48 | 58 |
| 7 | 26 | 27 | 29 | 34 | 38 | 46 | 56 | 69 |
| 8 | 27 | 29 | 35 | 38 | 46 | 56 | 69 | 83 |

FIG. 9

QUANTIZATION MATRIX OF INTERBLOCK

| v \ h | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------|----|----|----|----|----|----|----|----|
| 1 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 2 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 3 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 4 | 19 | 20 | 21 | 22 | 23 | 24 | 26 | 27 |
| 5 | 20 | 21 | 22 | 23 | 25 | 26 | 27 | 28 |
| 6 | 21 | 22 | 23 | 24 | 26 | 27 | 28 | 30 |
| 7 | 22 | 23 | 24 | 26 | 27 | 28 | 30 | 31 |
| 8 | 23 | 24 | 25 | 27 | 28 | 30 | 31 | 33 |

FIG. 10

EXAMPLE OF QUANTIZATION MATRIX IN ENHANCEMENT LAYER

| v \ h | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------|----|----|----|----|----|----|----|----|
| 1 | 16 | 16 | 18 | 16 | 16 | 16 | 16 | 16 |
| 2 | 16 | 18 | 16 | 16 | 16 | 16 | 16 | 16 |
| 3 | 18 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 4 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 5 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 6 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 7 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 8 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |

FIG. 11

ZIGZAG SCAN

| $\begin{matrix} \backslash \\ v \end{matrix} \begin{matrix} h \\ / \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|----|----|----|----|----|----|----|----|
| 1 | 1 | 2 | 6 | 7 | 15 | 16 | 28 | 29 |
| 2 | 3 | 5 | 8 | 14 | 17 | 27 | 30 | 43 |
| 3 | 4 | 9 | 13 | 18 | 26 | 31 | 42 | 44 |
| 4 | 10 | 12 | 19 | 25 | 32 | 41 | 45 | 54 |
| 5 | 11 | 20 | 24 | 33 | 40 | 46 | 53 | 55 |
| 6 | 21 | 23 | 34 | 39 | 47 | 52 | 56 | 61 |
| 7 | 22 | 35 | 38 | 48 | 51 | 57 | 60 | 62 |
| 8 | 36 | 37 | 49 | 50 | 58 | 59 | 63 | 64 |

FIG. 12

EXAMPLE OF ADAPTIVE SCAN

| $\begin{matrix} \backslash \\ v \end{matrix} \begin{matrix} h \\ / \end{matrix}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|----|----|----|----|----|----|----|----|
| 1 | 1 | 5 | 4 | - | 15 | 16 | 28 | 29 |
| 2 | 6 | 3 | 3 | 14 | 17 | 27 | 30 | 43 |
| 3 | 2 | 9 | 13 | 18 | 26 | 31 | 42 | 44 |
| 4 | 10 | 12 | 19 | 25 | 32 | 41 | 45 | 54 |
| 5 | 11 | 20 | 24 | 33 | 40 | 46 | 53 | 55 |
| 6 | 21 | 23 | 34 | 39 | 47 | 52 | 56 | 61 |
| 7 | 22 | 35 | 38 | 48 | 51 | 57 | 60 | 62 |
| 8 | 36 | 37 | 49 | 50 | 58 | 59 | 63 | 64 |

FIG. 13

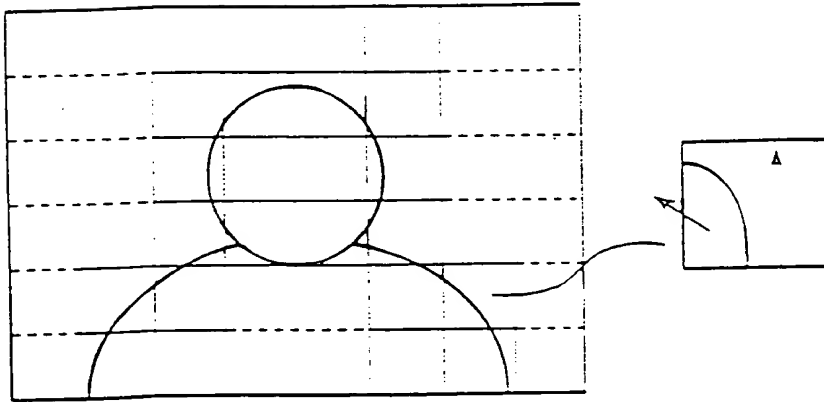


FIG. 14

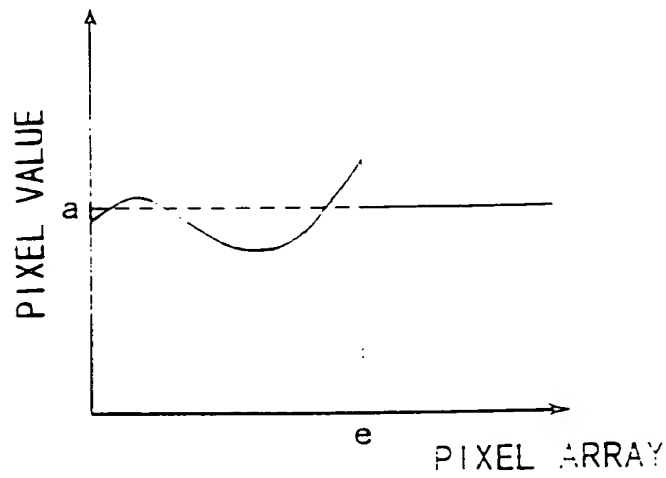


FIG. 16

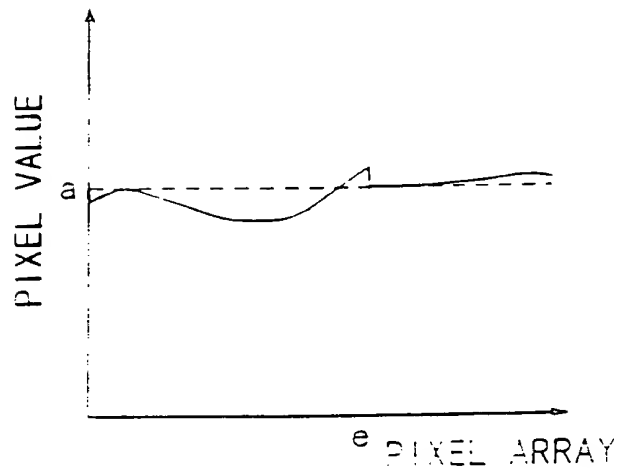


FIG. 17

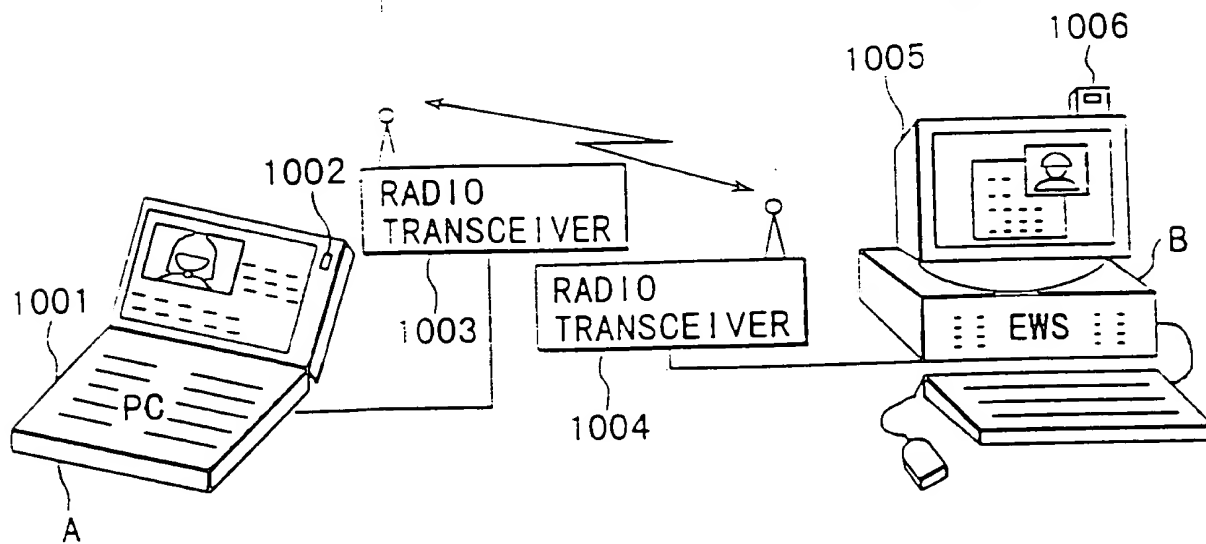


FIG. 15A

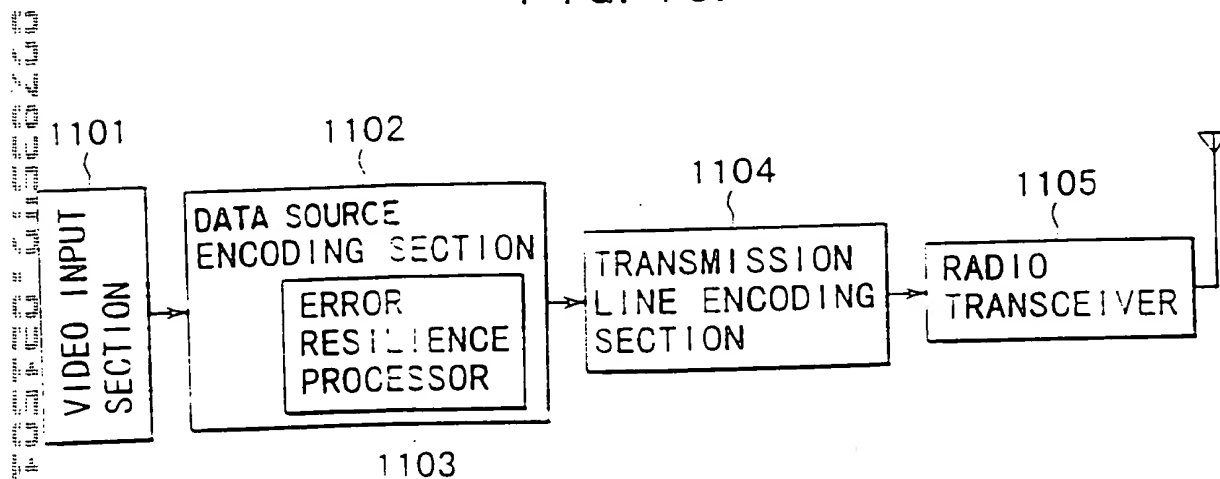


FIG. 15B

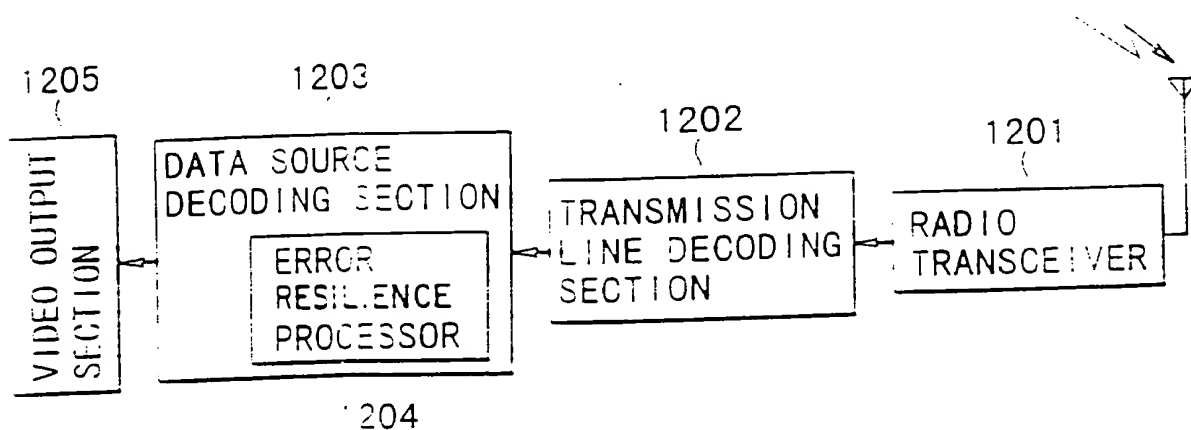


FIG. 15C

| | | | | | | | |
|---|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| a | a | a | a | a | a | a | a |
| a | a | a | a | a | a | a | a |
| a | a | a | a | a | a | a | x ₁ |
| a | a | a | a | a | a | a | x ₂ |
| a | a | a | a | a | x ₄ | x ₃ | x ₉ |
| a | a | a | x ₆ | x ₅ | x ₁₆ | x ₁₃ | x ₁₀ |
| a | a | x ₇ | x ₂₁ | x ₁₉ | x ₁₇ | x ₁₄ | x ₁₁ |
| a | x ₈ | x ₂₃ | x ₂₂ | x ₂₀ | x ₁₈ | x ₁₅ | x ₁₂ |

FIG. 18

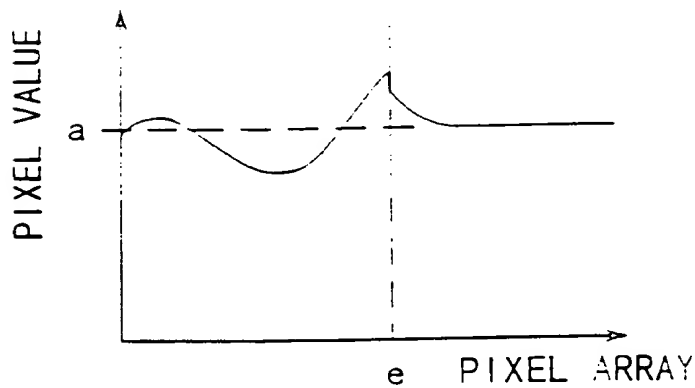


FIG. 19

| | | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| a ₄₁ | a ₃₉ | a ₃₈ | a ₃₂ | a ₃₁ | a ₂₅ | a ₁₉ | a ₁₀ |
| a ₄₀ | a ₃₇ | a ₃₃ | a ₂₇ | a ₂₆ | a ₁₉ | a ₁₁ | a ₁ |
| a ₃₈ | a ₃₄ | a ₂₃ | a ₂₁ | a ₂₀ | a ₁₂ | a ₂ | x ₁ |
| a ₃₅ | a ₂₉ | a ₂₂ | a ₁₄ | a ₁₃ | a ₄ | a ₃ | x ₂ |
| a ₃₀ | a ₂₃ | a ₁₅ | a ₆ | a ₅ | x ₄ | x ₃ | x ₉ |
| a ₂₄ | a ₁₆ | a ₇ | x ₆ | x ₅ | x ₁₆ | x ₁₃ | x ₁₀ |
| a ₁₇ | a ₈ | x ₇ | x ₂₁ | x ₁₉ | x ₁₇ | x ₁₄ | x ₁₁ |
| a ₉ | x ₈ | x ₂₃ | x ₂₂ | x ₂₀ | x ₁₈ | x ₁₅ | x ₁₂ |

FIG. 20

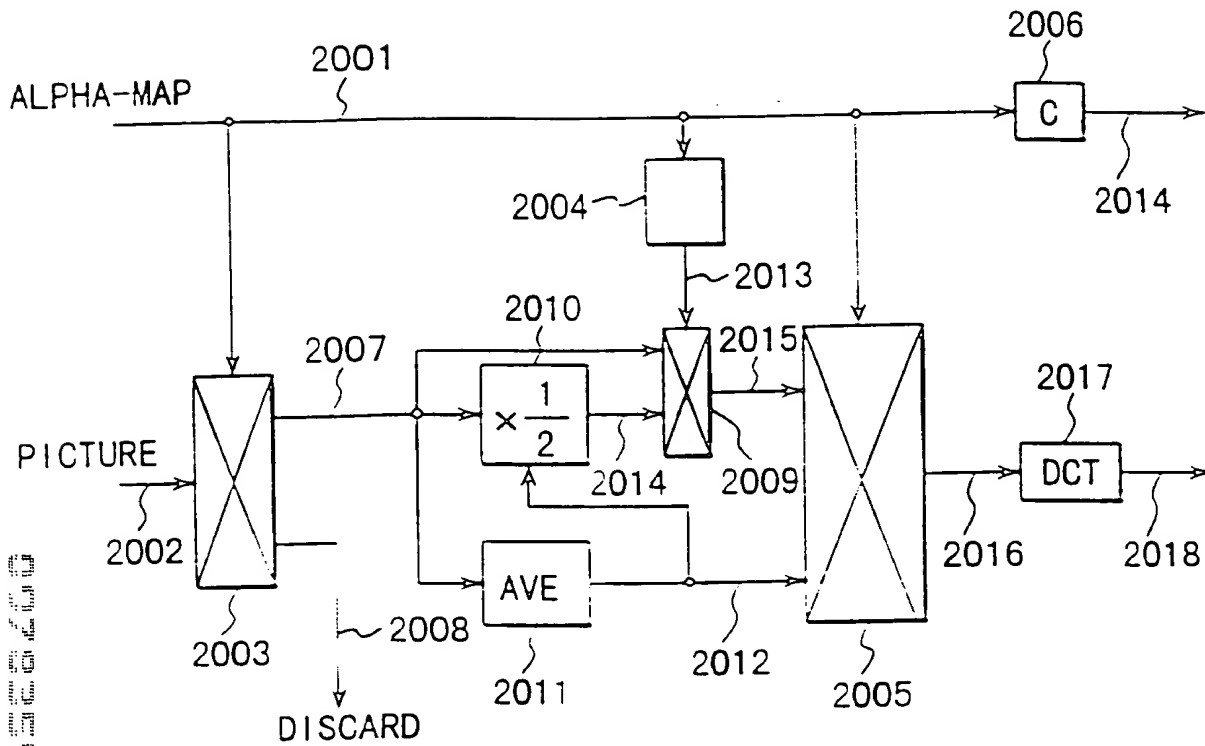
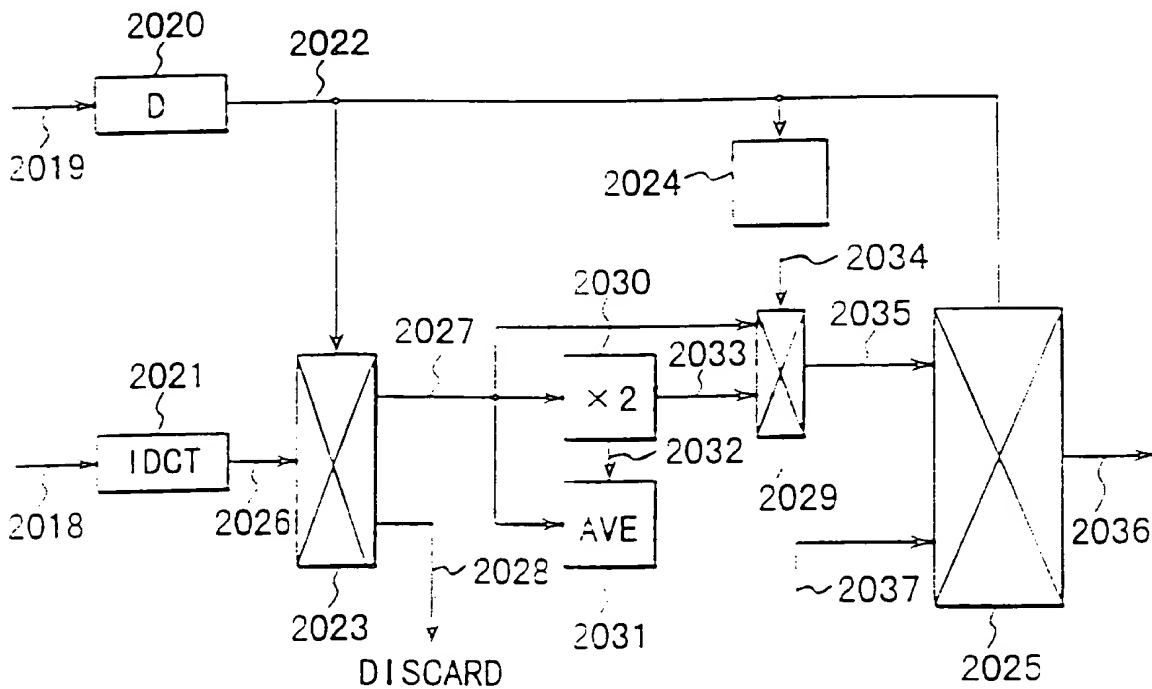


FIG. 21



F I G . 22